EXPRESS EV913276539US
PATENT COOPERATION TREATY
RECUIRECEIVED Erem the 1 2 DEC. 2005 INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY Paterit Operations To: THOMSON mularisettia Rennes LE DANTEC, Claude Thomson NOTIFICATION OF TRANSMITTAL OF 46, quai Alphonse Le Gallo THE INTERNATIONAL PRELIMINARY F-92100 Boulogne Billancourt REPORT ON PATENTABILITY **FRANCE** (PCT Rule 71.1) Date of mailing 06.12.2005 (day/month/year) Applicant's or agent's file reference **IMPORTANT NOTIFICATION** PD030134 Priority date (day/month/year) International filing date (day/month/year) International application No. 18.12.2003 14.12.2004 PCT/EP2004/053447 **Applicant** THOMSON LICENSING SA et al

- 1. The applicant is hereby notified that this International Preliminary Examining Authority transmits herewith the international preliminary report on patentability and its annexes, if any, established on the international application.
- 2. A copy of the report and its annexes, if any, is being transmitted to the International Bureau for communication to all the elected Offices.
- 3. Where required by any of the elected Offices, the International Bureau will prepare an English translation of the report (but not of any annexes) and will transmit such translation to those Offices.

4. REMINDER

The applicant must enter the national phase before each elected Office by performing certain acts (filing translations and paying national fees) within 30 months from the priority date (or later in some Offices) (Article 39(1)) (see also the reminder sent by the International Bureau with Form PCT/IB/301).

Where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary report on patentability. It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned.

For further details on the applicable time limits and requirements of the elected Offices, see Volume II of the PCT Applicant's Guide.

The applicant's attention is drawn to Article 33(5), which provides that the criteria of novelty, inventive step and industrial applicability described in Article 33(2) to (4) merely serve the purposes of international preliminary examination and that "any Contracting State may apply additional or different criteria for the purposes of deciding whether, in that State, the claimed inventions is patentable or not" (see also Article 27(5)). Such additional criteria may relate, for example, to exemptions from patentability, requirements for enabling disclosure, clarity and support for the claims.

Name and mailing address of the international preliminary examining authority:



European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d Fax: +49 89 2399 - 4465 **Authorized Officer**

Bapisch, A

Tel. +49 89 2399-2262



PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY.

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference PD030134	FOR FURTHER A	CTION	See Form PCT/IPEA/416			
International application No. PCT/EP2004/053447	International filing date 14.12.2004	(day/month/year) :	Priority date (day/month/year) 18.12.2003			
International Patent Classification (IPC) or n H03M7/24, H03M7/50, G09G3/28	ational classification and l	PC .	: :			
	· 					
Applicant THOMSON LICENSING SA et al						
This report is the international pre Authority under Article 35 and train	eliminary examination rensmitted to the applicar	eport, established by this nt according to Article 36.	International Preliminary Examining			
2. This REPORT consists of a total of	of 5 sheets, including t	his cover sheet.				
3. This report is also accompanied b	y ANNEXES, comprisi	ng:	• •			
a. Sent to the applicant and to		·				
and/or sheets containing	sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).					
	beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the					
b. (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)), containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).						
-						
4. This report contains indications re	elating to the following it	tems:				
🖾 Box No. I Basis of the opin	nion ,		, •			
☐ Box No. II Priority	•		•			
<u> </u>	•	ard to novelty, inventive s	tep and industrial applicability			
☐ Box No. IV Lack of unity of		N ! A la				
		s) with regard to noveity,s supporting such statement	inventive step or industrial ent			
☐ Box No. VI Certain docume	ents cited					
☐ Box No. VII Certain defects	in the international app	lication				
☐ Box No. VIII Certain observa	tions on the internation	al application	•			
Date of submission of the demand		Date of completion of this	report			
Date of Submission of the demand		bate of completion of ans	·			
17.10.2005		06.12.2005				
Name and mailing address of the internation preliminary examining authority:	al	Authorized Officer	Language Patronian, E.			
European Patent Office D-80298 Munich	50 anness el	Winkler, G				
Tel. +49 89 2399 - 0 Tx: 52369 Fax: +49 89 2399 - 4465	56 epmu d	Telephone No. +49 89 23	99-8184			

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/EP2004/053447

IAP20 Rec'o PCT/PTO 19 JUN 2006

ī	Box	No. I	Basis of the report				
1.	With filed,	regard unless	to the language , thi otherwise indicated	s report is based on th under this item.	e international app	olication in the lar	nguage in which it wa
	V []	which is □ inter □ publ	s the language of a tr national search (und ication of the interna	slations from the origin ranslation furnished for ler Rules 12.3 and 23. tional application (under Ru	the purposes of: (b)) er Rule 12.4)		age,
2.	have	been t	furnished to the recei	the international applications of the internation applications of the international applications of the inte	e to an invitation ul	s based on <i>(repla</i> nder Article 14 ar	acement sheets which e referred to in this
						J	•
	Desci	ription,	Pages				•
	1-7			as originally filed			
	Claim	ıs, Num	bers				
	1-3		•	filed with the demand			
	Drowi	ings Si	· ·				
		ings, Sl	neets	oo originally filed			
	1/1	,	•	as originally filed			
	□ а	seque	ence listing and/or an	y related table(s) - see	Supplemental Bo	x Relating to Seq	uence Listing
3.	T	he am	endments have resu	lted in the cancellation	of:		.•
		_	description, pages				
			claims, Nos. drawings, sheets <i>l</i> figs				
٠	[sequence listing (spe	ecify): equence listing <i>(specify</i>	·)•		
	L	ı alıy	lable(s) related to se	quence iisting (<i>specify</i>	/- ·	•	
4.	had n	ot bee	oort has been establi n made, since they h al Box (Rule 70.2(c))	shed as if (some of) the nave been considered to the considered to	e amendments an o go beyond the d	nexed to this repo lisclosure as filed	ort and listed below , as indicated in the
			description, pages claims, Nos. 1-2	•		•	
			drawings, sheets/figs				
			sequence listing (spe	ecify): equence listing <i>(specify</i>	}•		a processor of the control of the co
	_		•			16 a	····
	* I	f ite	m 4 applies, so	me or all of the	se sneets may	pe marked "s	uperseaea."

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1		State	em	ent
•	•			

Novelty (N)		Claims Claims	2,3 1
Inventive step (IS)		Claims Claims	3 2
Industrial applicability (IA)	Yes: No:	Claims Claims	1-3

2. Citations and explanations (Rule 70.7):

see separate sheet

10/583428 iAP20Rec'dPCT/PTO 19 JUN 2006

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (SEPARATE SHEET)

PCT/EP2004/053447

International application No.

Re Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Reference is made to the following document:

D1: US 5 819 017 A

The amendments filed with the demand introduce subject-matter which extends beyond the content of the application as filed, contrary to Article 34(2)(b) PCT. The amendments concerned are the modification of the phrase "with the value of said N bits word" into "as the value of said N bits word increases" in claims 1 and 2.

The modified phrase implicitly defines that the size of the mantissa is monotone increasing as the value the N-bits word increases. However, no basis can be found in the application as filed (cf e.g. page 4, lines 12 and 13) for this amendment.

Thus, these amendments are contrary to Article 34(2)(b) PCT.

Hence, for the reasoned statement with regard to novelty, inventive step or industrial applicability the claims filed with the demand are examined without taking the above identified amendments into consideration.

The present application does not meet the criteria of Article 33(1) PCT, because the subject-matter of claim 1 is not new in the sense of Article 33(2) PCT.

The document D1 discloses (the references in parentheses applying to this document) a method for transcoding a N bits word into a M bits word, whereby N is larger than M (cf column 12, lines 21 - 22 and table 3). D1 discloses further that the N bits word is broken down into an exponent part having a variable number of A bits and a mantissa part having a variable number of B bits. D1 discloses further that the exponent part and the mantissa having a size which varies according to the value of the N bits word, whereby the size of the mantissa increases with the value of the N bits word. D1 discloses further that least significant bits of the mantissa part are removed, thus that A+B=M (cf table 3).

Thus, D1 discloses all the features of claim 1.

- The present application does not meet the criteria of Article 33(1) PCT, because the subject-matter of claim 2 does not involve an inventive step in the sense of Article 33(3) PCT, for the following reasons:
 - Claim 2 specifies apparatus features corresponding to the method steps of claim 1. Since, D1 discloses the method steps of claim 1 (cf point 2 above) and a person skilled in the art would implement the method steps of D1 without exercise of inventive skill in hardware or software, the person skilled in the art would arrive at the subject-matter of claim 2.
- The combination of the features of dependent claim 3 is neither known from, nor rendered obvious by, the available prior art, for the following reason:
 - A person skilled in the art would not apply a lossy compression algorithm known from one technical field to another technical field, since he knows that every lossy compression algorithm is specially adapted to the data which are processed in order not to cause noticeable distortions. Thus, a person skilled in the art working in the field of plasma displays would not consider D1, which is concerned with storing 3D-depth information, when processing data delivered from a degamma function.

Printed: 08/11/2005

10

30

٠,

CLMSPAMD 10/5654 CEPO-DG 1

AP20 Rec'd PCT/PTO 19 JUN 2006 1 10. 2005

CLAIMS

87

- 1. Method for transcoding a N bits word into a M bits word, N > M, characterized in that it comprises the following steps:
- breaking down the N bits word into an exponent part and a mantissa part having each a size which varies according to the value of said N bits word, the size of the mantissa part increasing as the value of said N bits word increases, and
- encoding the exponent part of the N bits word into a variable number of bits A and removing, if need be, least significant bits of the mantissa part in order to obtain a mantissa with a variable number of bits B, with A+B=M.
- 2. Device for transcoding a N bits word into a M bits word, N > M, that the characterized it comprises
 - means for breaking down the N bits word into an exponent part and a mantissa part having each a size which varies according to the value of said N bits word, the size of the mantissa part increasing as the value of said N bits word increases, and
- means for encoding the exponent part of the N bits word into a variable number of bits A and removing, if need be, least significant bits of the mantissa part in order to obtain a mantissa with a variable number of bits B, with A+B=M.
- 25 3. Plasma display panel comprising:
 - a degamma means (80) for applying a degamma function to video input data (Y[9:0]) and delivering N bits data;
 - a transcoding device (90) for transcoding said N bits data into M bits data, and
 - a mapping memory (100) for remapping M bits data, with N>M,
 characterized in that said transcoding device (90) is a transcoding device according to claim 2.

